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states:(71) Applicant: **CANON INC**(72) Inventor: **KYOGOKU HIROSHI**

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(54) PROTECTING CIRCUIT

(57) Abstract:

PURPOSE: To evade a thermal
breakdown due to abnormal feeding
to a heating resistor by comparing a
voltage applied to a control circuit
with a specific voltage and
controlling a voltage applied to the
heating resistor.

CONSTITUTION: The power circuit
of a printer head is equipped with a
switch circuit 8 which intermittes the

voltage applied to the heating resistor 2 and a comparing circuit 9 which judges whether a voltage VCC applied to the control circuit 1 is normal or not between the downstream side of the 1st rectifying circuit 4 and the circuit 8. The circuit 8 consists of a transistor (TR), a switching TR, and a resistance and the circuit 9 consists of a Zener diode and a resistance. Those circuits 8 and 9 form a protecting circuit 10. Then even if a false signal is inputted when the voltage is unusable during power-on or power-off operation, or when the voltage can not be applied to the control circuit 10, the voltage applied to the heating resistor 2 is cut by the circuit 1 to prevent the heating resistor 2 from being broken down thermally.

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